

City of Fresno – Zero Waste Strategic Action Plan

Purpose: To achieve 75% diversion by 2012 and zero-waste status by 2025.

City Philosophy: “To manage our resources through the highest and best use hierarchy: Reduce up-stream wastes, Reuse mid-stream wastes, *then* Recycle down-stream wastes.”



Target Goals: To reduce waste output to landfills incrementally as follows:

2004	62% Diversion – 463,800 tons disposal	(actual - based on waste study)
2008	70% Diversion – 404,000 tons disposal	(on-target - due to C&D & Commercial recycling)
2012	75% Diversion – 372,000 tons disposal	(projected - with food waste recycling)
2016	80% Diversion – 328,000 tons disposal	
2020	85% Diversion – 272,000 tons disposal	
2025	90% Diversion – 200,000 tons disposal	(assuming 2.5% growth rate each year minus new diversion.)

Zero Waste

Zero Waste is a philosophy and a design principle for the 21st Century that includes 'recycling' but goes beyond recycling by taking a 'whole system' approach to the vast flow of resources throughout society. It is a goal and guide for people to emulate sustainable natural cycles, where all discarded materials are resources for others to use.

Zero waste is based on the concept that wasting resources is costly and inefficient. This practice aggressively pushes toward maximizing our existing reuse and recycling networks. It also promotes designing products and the mechanisms that support cost effective product repair, reuse, and recycling. This means designing and managing products and processes to reduce and/or eliminate the volume and toxicity of waste, conserve and recover all resources, and not burn or bury them.

The success of zero waste requires that we redefine the concept of "waste" in our society. In the past, waste was considered a natural by-product of our culture. Now, it is time to recognize that proper resource management, not waste management, is at the heart of reducing waste sent to landfills.

- At home, Zero Waste encourages reduced consumerism which is ultimately beneficial for each household budget. Zero Waste educates citizens about conservation, reuse, and environmental purchasing patterns through delayed long-term payback.
- At businesses, Zero Waste cuts costs, improves competitiveness and maximizes environmental performance.
- At local government, Zero Waste reduces the unfunded mandate of trash collection, reduces operational costs, and attracts economic vitality to the community.



Zero Waste encourages local government, businesses, and consumer partnerships to provide a new path toward stewardship of our resources. Zero waste is about balanced alternatives, efficiencies, fiscal responsibilities, creative thinking, and environmental stewardship.



Reduce Up-Stream Wastes – “Waste Avoidance”



Up-stream wastes are defined as wastes generated from mining operations (e.g., mining gas release, clear cut deforestation, and the resulting water shed pollution issues, etc.) that create raw mineral/material feedstock for the products our society consumes, and the transportation waste (e.g., vehicle emissions) to deliver products to market. For every ton of products reaching our local market shelves, seventy-one (71) tons of wastes was created to mine, manufacture, store, and finally transport it to market. (source: USEPA 2006) These wastes pose a challenge for local governmental control, but are created as a result of consumer demand for products and services. Therefore, a comprehensive and responsible Zero-Waste Plan addresses the necessary actions consumers can take to reduce the creation of up-stream wastes through wise purchasing practices.

A. Single-Family / Multi-Family– Consumer Responsibility

- a. Waste Reduction – less packaging
Encourage residents to use re-usable shopping bags, purchase in bulk, stop junk mail, and contact companies to complain about excessive packaging.
- b. Smart Buying – less “consumerism”
Encourage residents to purchase products with consideration of longevity and a lesser negative environmental impact (e.g., shop farmers markets as it reduces upstream long distance shipping, zero packaging, and supports local jobs/economy), and resist impulse buying which causes wasteful spending and ultimately ends up in the garbage.
- c. Living Green – less toxics use in the home
Educate residents to purchase “Green” household cleaners (vinegar, phosphate free laundry soaps, dishwashing crystals, etc.), purchase eco-friendly products (shampoos, conditioners, body washes, etc. with no silica), and stop purchasing anti-bacterial soaps (which contaminate the water and produce drug-resistant bacteria).

Action Plan:

1. Develop public education campaigns to encourage consumers to reduce wasting practices. (e.g. model from water conservation efforts)
2. Educate residents on back yard composting, Xeriscape landscaping, and grasscycling. (Fresno Green Strategy)
3. Develop consumer toxics avoidance campaign. (Fresno Green Strategy)
4. Restructure waste collection programs toward a pay-as-you-throw pricing structure.

B. Commercial – Manufacturer and Retailers Responsibility

- a. Promote EPR – Extended Producer Responsibility – work with a statewide alliance to bring manufacturers, retailers, and local governments together in cooperative Take-it-Back programs or other producer driven incentives to reuse or recycle discarded toxic products.



- b. Encourage manufacturers and retailers to “design-for-reuse/recycling” to gain better longevity and usefulness of the products they produce.
- c. Encourage and support local sustainable development practices and recognize local “green” businesses.
- d. Seek and encourage new “green” businesses to locate in Fresno.

Action Plan:

- 1. Research / Contact local producers – establish producer responsibility team to develop take-back programs. (i.e. battery/fluorescent tubes drop-off locations, sharps collection, etc.) (Fresno Green Strategy)
- 2. Implement local EPA Waste Wise Program.
- 3. Actively encourage cooperative education campaigns with local “green” organizations.
- 4. Educate local producers about the “71 ton multiplier” of upstream wastes. (“71 ton multiplier” - source: USEPA 2006)
- 5. Promote the establishment of Green Teams within local businesses.
- 6. Seek new economic growth by attracting new “green” businesses to Fresno. (Fresno Green Strategy)

C. Local Government – Green Policies and Procedures

- a. Promote “Living Green” through city-wide environmental policies.
- b. Adopt an environmentally preferred purchasing policy for city purchases.
- c. Provide economic incentives that encourage “green” business practices.
- d. Support a public education campaign that encourages residents to “re-think” their purchasing habits and utilize their buying power to purchase greener products.

Action Plan:

- 1. Develop/Implement a Green Purchasing Policy. (Fresno Green Strategy)
- 2. Dispel the myth; Landfills are not designed to generate or capture methane. Educate local officials and residents that landfilling is a long-term liability, as they all produce dangerous greenhouse gases (methane is 23 times more toxic than CO₂).
- 3. Develop/Implement an Integrated Pest Management Plan. (Fresno Green Strategy)
- 4. Research the effects and distribution of Styrofoam in the Fresno market. Network with businesses utilizing Styrofoam and research alternatives. Develop and implement a Styrofoam ban if not recyclable. (Fresno Green Strategy)
- 5. Research the effects and distribution of one-time use (disposable) plastic bags in the Fresno market. Network with businesses utilizing plastic bags and research alternatives. Develop and implement a plastic bag ban if not recyclable. (Fresno Green Strategy)
- 6. Investigate emerging waste reduction technologies and alternatives.
- 7. Establish an economic incentives program to attract “green” businesses. (Fresno Green Strategy)
- 8. Study the life-cycle effects of non-recyclables and encourage the discontinued use where possible. (e.g., plastic bags, consumer rubber products, Styrofoam.) (Fresno Green Strategy)



Reuse Mid-Stream Wastes – “Discard Reuse”



Mid-stream wastes are generated locally by every household, school, business, and governmental office, through material wasting inefficiencies, excess packaging, and unnecessary product discard. If the waste generated at this level is not addressed, it becomes a financial burden to local government in the form of down-stream collection costs. Moving discards into a variety of reuse options eliminates waste collection costs and is the “heart of waste prevention”, saving local government and tax-payer money from unnecessary disposal expenses. Therefore, a comprehensive Zero-Waste Plan addresses the actions local consumers, businesses, and government can take to reduce the impact of mid-stream wastes created at the local level through more aggressive reuse and conservation measures.

A. Residential – resource conservation

- a. Encourage residents to implement reuse in the home. Promote the purchase of durable re-usable items (e.g. re-sealable kitchen containers for food storage instead of plastic wrap).
- b. Educate consumers about buying in bulk to reduce packaging and product waste. Purchasing single-serving food products causes unnecessary waste.
- c. Encourage a wider and more organized use of yard sales. Establish city-wide yard sale weekends each year to better advertise the value of reuse.
- d. Establish a list of second-hand opportunities in the area for residents to donate and/or acquire second-hand clothing, housewares, yardwares, etc.

Action Plan:

1. Develop a public education program that promotes buying in bulk, reducing single-serving purchases, and promotes reuse and secondary storefronts.
2. Organize a Fresno Yard Sale Weekend, where residents are encouraged to coordinate yard sales centralized around one well-advertised weekend.
3. Develop the City website to encourage waste reduction and reuse activities.

B. Commercial – waste-trading

- a. Encourage businesses, non-profits, schools and local governments to use on-line waste exchange networks. (e.g. CalMAX)
- b. Encourage local business groups to provide educational opportunities for promoting business efficiencies through waste reduction and waste reuse.
- c. Encourage local business to tap into state grant and loan programs to provide capital for reuse and recycling opportunities. (e.g. RMDZ)
- d. Encourage local businesses to “Design for Reuse/Recycling” through workshops and business forums.
- e. Encourage use of recycled products and design for recycling (e.g. phase-out “sandwich plastics, where two dissimilar plastics are fused together eliminating possible recycling options.)



Action Plan:

1. Develop an education campaign to inform businesses of the value and availability of waste exchange networks.
2. Sponsor an annual Business Zero Waste Workshop, with featured speakers from various zero-waste based businesses demonstrating the “how-to’s” toward Zero Waste. (Fresno Green Strategy)
3. Become more involved in the promotion and use of the RMDZ business grant/loan program provided by the state. (Fresno Green Strategy)
4. Develop business forums to discuss the redesign of products so as to encourage reuse and/or recycling.
5. Link businesses to available technical resources that can advise on the environmental and budgetary benefits of product redesign.

C. Local Government – technical assistance

- a. Establish a City on-line reuse depot, for the exchange and reuse of city purchased items.
- b. Develop a buy-recycled environmental purchasing policy for consumers and businesses.
- c. Establish a “Feedstock Business Pairings Program”, locating reusable or recyclable material waste stream generators and matching them with area businesses that can consume that material as feedstock.
- d. Design a Zero-waste business park in Fresno within the Economic Development framework of the city. Such a business park produces its own energy, and consumes any generated waste through proper business pairings, creating a net energy gain and generation of zero landfilled waste.
- e. Actively utilize the resources offered through the RMDZ program to attract new green-businesses to the Fresno area increasing new jobs and economic health.

Action Plan:

1. Promote and educate the public on secondary storefront reuse opportunities.
2. Research business waste flows that can be reused or recycled. Establish a local on-line database of reuse/recyclable opportunities.
3. Solicit new business growth, through the Economic Development Office, that pairs an existing waste stream with a business that can utilize it as a feedstock. (e.g. broken window glass scraps utilized as feedstock by a new ceramic tile company.)
4. Post a website page dedicated toward promoting secondary reuse and environmental purchase policies.
5. Establish a “Feedstock Business Pairings Program”. (Fresno Green Strategy)
6. Develop a Zero-waste business park in Fresno through the City of Fresno Economic Development Office. (Fresno Green Strategy)



Recycle Down-Stream Wastes – “End-of-Pipe Diversion”



Down-stream wastes are generated locally by every household, school, business, and governmental office, with the intent to dispose of unwanted packaging, products, and other wastes created. Wastes at this level must be collected, processed and sent to a final disposal facility. Down-stream captured wastes are a direct financial burden to the local government for collection and processing, and include landfilling, greenwaste composting, recycling and disposal of household hazardous wastes. If wastes must be handled down-stream, the best options involve the support and expansion of existing recycling collection programs, composting opportunities (food collection programs, home and work on-site composting) and the reduction of toxin disposal through education and reuse programs. Thus, a comprehensive Zero-Waste Plan addresses what actions local consumers, businesses, and government can take to reduce the impact of down-stream wastes (created at the local level) through more aggressive tactics in “rethink, reduce, reuse, recycle and compost”.

A. Residential – recycle / compost 90% of waste stream

- a. Encourage residents to utilize the blue & green carts more extensively, eliminating recyclables and organics from the trash collection system.
- b. Educate residents on an expanded recycling collection list of household items that should not be landfilled.
- c. Encourage the use of home-based back-yard composting of yard and food waste to reduce landfilling.

Action Plan:

1. Audit the city-delivered trash to the transfer facility to identify recyclables disposed through the trash collection system. Audit residential, commercial and multi-family waste streams to better determine the percentage of recyclables within the trash. Design a public education campaign to reduce recyclables and organics deposited in the trash contaminations.
2. Audit the city-delivered recycling and green waste to the various receiving facilities to identify residual trash components. Audit residential, commercial and multi-family waste streams to better determine the percentage of trash residuals from each source. Design a public education campaign to reduce residual contamination.
3. Develop value-based themed advertising to promote better sortation and reduced contamination. (Fresno Green Strategy)
4. Develop homeowner information regarding back-yard composting and its benefits to gardening. Encourage stronger visibility and participation from local experts (e.g., Master Gardener program). (Fresno Green Strategy)

B. Commercial – material resource management

- a. Encourage businesses toward a two-bin program: Recyclables (blue) and Organics (green).
- b. Expand recycling collection within the commercial establishments. For instance, 90% of office building waste is recyclable.



- c. Implement organics collection at restaurants and food handlers. Explore alternative methods of handling business based organics.
- d. Encourage all waste haulers to develop Zero-Waste plans for their activities.

Action Plan:

- 1. Expand recycling and organic collection to all local businesses. (Fresno Green Strategy)
- 2. Provide educational information at local business networking meetings.
- 3. Implement a pilot commercial food waste collection program. With success, expand food waste collection to all schools, hospitals, restaurants and food handlers within the City. (Fresno Green Strategy)
- 4. Expand business recognition program to demonstrate zero-waste activity within the local business community. (Fresno Green Strategy)

C. Local Government – Collection and Alternative Diversions

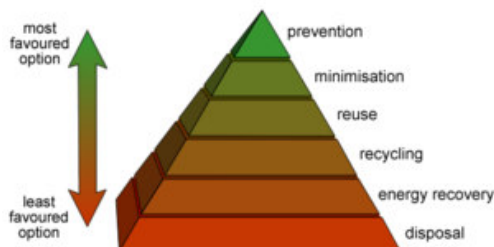
- a. Study and increase collection technology efficiencies (e.g. anaerobic digestion).
- b. Research and develop new waste diversion activities.
- c. Establish better options for the collection and management of Electronic, HHW and U-Waste streams.
- d. Develop a waste disposal pricing system that discourages landfilling by encouraging all to rethink, reduce, reuse, recycle.
- e. Discourage or eliminate the use of recyclable and compostable materials from use as Biomass, and as Alternative Daily Cover (ADC) at the landfill.
- f. Require all waste haulers that haul within the City to participate in Zero-Waste activities, including the avoidance of landfilling recyclables and compostables.
- g. Inventory Green House Gases (GHG) effects as a result of trash, green waste and recycling collection programs to assess positive and negative impacts on Climate Change.

Action Plan:

- 1. Research organic technologies that can accept food waste collection. (Fresno Green Strategy)
- 2. Research and assist in the development of markets for compost and mulch.
- 3. Evaluate mandatory vs. voluntary programs regarding source separation and contamination. (Fresno Green Strategy)
- 4. Establish a waste prevention and recycling plan for all city government functions. (Fresno Green Strategy)
- 5. Establish waste prevention and recycling guidelines for large-venue events to reduce wasting practices. (AB2076)
- 6. Establish waste prevention and recycling guidelines for local schools. (Fresno Green Strategy)
- 7. Establish a Household Hazardous Waste (HHW) collection facility within the city, as well as an HHW reuse center. (Fresno Green Strategy)
- 8. Develop a rate study that provides true costing of recycling, green waste and trash collection service that incorporates the concept of “Pay-as-you-Throw”.
- 9. Contract for a Zero Waste Characterization Study that provides an analysis of the current waste collection system, researches options, and recommends actions targeted toward reaching the zero waste goal. (Fresno Green Strategy)



10. Rename the City of Fresno Solid Waste Management Division to better reflect the goal of more recycling and less waste collection (e.g. "Recycling and Resource Management Division")
11. Study the possibility of a two-can collection system; Blue for recyclables and green for organics, (eliminating the trash can) and recognizing the contaminant allowances in available technology. (Fresno Green Strategy)
12. Establish ground rules for waste haulers to abide by the City Zero Waste Plan, including the adoption of hauling rules in Fresno Municipal Code.
13. Calculate Green House Gases (GHG) utilizing the EPA WARM Model to assess positive/negative effects on Climate Change.



Zero Waste Strategic Action Plan: The First Three Years (Action Plan organized by Fiscal Year – Planned City Staff Activities)

A. FY08 (2007-2008)

a. Public Education

- i. Educate local officials and residents that landfilling is a long-term liability, producing dangerous greenhouse gases, and wasting taxpayer dollars. (School Recycling Education Program)

b. Research Activities

- i. Research organic technologies that can accept food waste collection. (Fresno Green Strategy) (Recycling Staff)
- ii. Evaluate mandatory vs. voluntary programs regarding source separation and contamination. (Fresno Green Strategy) (Recycling Staff)

c. Commercial Business Activities

- i. Sponsor an annual Business Zero Waste Workshop, with featured speakers from various zero-waste based businesses demonstrating the "how-to's" toward Zero Waste. (Fresno Green Strategy) (Recycling Chief & Recycling Staff & Economic Development Office)
- ii. Expand business recognition program to demonstrate zero-waste activity within the local business community. (Fresno Green Strategy) (Recycling Chief & Recycling Staff & Economic Development Office)

d. Operational Changes

- i. Develop/Implement Green Purchasing Policy (Fresno Green Strategy) (Recycling Chief)



- ii. Establish ground rules for waste haulers to abide by the City Zero Waste Plan, including the adoption of hauling rules in Fresno Municipal Code. (FMC changes under review by City Attorney)
- iii. Calculate Green House Gases (GHG) utilizing the EPA WARM Model to access positive/negative effects on Climate Change. (Recycling Staff)
- iv. Audit the city-delivered trash to the CARTS Transfer Facility to identify recyclables disposed through the trash collection system. Audit residential, commercial and multi-family waste streams to better determine the percentage of recyclables within the trash. Design a public education campaign to reduce recyclables deposited in the trash contaminations. (State Grant funded)
- v. Audit the city-delivered recycling and green waste to the various receiving facilities to identify residual trash components. Audit residential, commercial and multi-family waste streams to better determine the percentage of trash residuals from each source. Design a public education campaign to reduce residual contamination. (State Grant funded)

e. **Fiscal Impact for FY08**

- i. No additional funds needed
- ii. State grant funds utilized for waste studies
- iii. Recycling Education & Media funds (GM12) utilized for most activities (no additional \$ needed over currently budgeted plan)
- iv. Recycling Staff time – approximately 1 FTE (existing position)
- v. Recycling Chief & Recycling Coordinator time – related to Fresno Green activities

B. FY09 (2008-2009)

a. **Public Education**

- i. Develop public education campaign to encourage consumers to reduce wasting practices. (e.g. model from water conservation efforts)
- ii. Educate residents on back yard composting, Xeriscape landscaping, and grasscycling. (Fresno Green Strategy 18 & 20)
- iii. Develop a public education program that promotes buying in bulk, reducing single-serving purchases, and promotes reuse and secondary storefronts.
- iv. Organize a Fresno Yard Sale Weekend, where residents are encouraged to coordinate yard sales centralized around one well-advertised weekend. (Recycling Coordinator)
- v. Actively encourage cooperative education campaigns with local “green” organizations. (Recycling Coordinator)

b. **Research Activities**

- i. Research / Contact local producers – establish producer responsibility team to develop take-back programs. (i.e. battery/fluorescent tubes drop-off locations, sharps collection, etc.) (Fresno Green Strategy) (Recycling Chief & Recycling Coordinator)



- ii. Research the effects and distribution of Styrofoam in the Fresno market. Network with businesses utilizing Styrofoam and research alternatives. Develop and implement a Styrofoam ban. (Fresno Green Strategy) (Recycling Staff)
- iii. Research the effects and distribution of one-time use (disposable) plastic bags in the Fresno market. Network with businesses utilizing plastic bags and research alternatives. Develop and implement a plastic bag ban. (Fresno Green Strategy) (Recycling Staff)
- iv. Investigate emerging waste reduction technologies and alternatives. (Recycling Staff)
- v. Research and assist in the development of markets for compost and mulch. (Recycling Staff)

c. Commercial Business Activities

- i. Educate local producers about the “71 ton multiplier” of upstream wastes. (Recycling Staff)
- ii. Promote the establishment of Green Teams within local businesses. (Recycling Staff)
- iii. Develop education campaign to inform businesses of the value and availability of waste exchange networks. (Recycling Staff)
- iv. Sponsor an annual Business Zero Waste Workshop, with featured speakers from various zero-waste based businesses demonstrating the “how-to’s” toward Zero Waste. (Fresno Green Strategy) (Recycling Office & Economic Development Office)
- v. Seek new economic growth by attracting new “green” businesses to Fresno. (Fresno Green Strategy) (Economic Development Office)
- vi. Establish an economic incentives program to attract “green” businesses. (Fresno Green Strategy) (Economic Development)
- vii. Become more involved in the promotion and use of the RMDZ business grant/loan program provided by the state. (Fresno Green Strategy) (Economic Development Office)

d. Operational Changes

- i. Implement local EPA Waste Wise Program. (Recycling Staff – Waste Diversion Technical Assistance)
- ii. Expand recycling collection to all local businesses. (Fresno Green Strategy) (Recycling Staff)
- iii. Develop/Implement an Integrated Pest Management Plan. (Fresno Green Strategy) (Parks & Facilities)
- iv. Establish a waste prevention and recycling plan for all city government functions. (Fresno Green Strategy) (Recycling Chief & Recycling Coordinator)
- v. Establish waste prevention and recycling guidelines for large-venue events to reduce wasting practices. (AB2076) (Recycling Staff)
- vi. Establish waste prevention and recycling guidelines for local schools. (Fresno Green Strategy) (Recycling Staff)
- vii. Establish a Household Hazardous Waste (HHW) collection facility within the city, as well as an HHW reuse center. (Fresno Green Strategy) (Operations Chief, Recycling Chief & Recycling Coordinator)



- viii. Contract for a Zero Waste Characterization Study that provides waste analysis of the current waste collection system, researches options, and recommends actions targeted toward reaching the zero waste goal. (Fresno Green Strategy)
- ix. Rename the City of Fresno Solid Waste Management Division to better reflect the goal of more recycling and less waste collection (e.g. "Recycling and Resource Management Division")

e. Fiscal Impact for FY09

- i. Additional funds needed for Zero Waste Characterization Study
- ii. Recycling Education & Media funds (GM12) utilized for most activities (no additional \$ needed than currently budgeted)
- iii. Recycling Staff time – approximately 2 FTE (existing positions)
- iv. Recycling Chief & Recycling Coordinator time – related to Fresno Green activities

C. FY10 (2009-2010)

a. Public Education

- i. Develop consumer toxics avoidance campaign.(Fresno Green Strategy) (Recycling Staff)
- ii. Post a website dedicated toward promoting secondary reuse and environmental purchase policies. (Recycling Staff)

b. Research Activities

- i. Restructure waste collection programs toward a pay-as-you-throw pricing structure. Develop a rate study that provides true costing of recycling, green waste and trash collection service within the context of "Pay-as-you-Throw". (Operations Chief, Recycling Chief, Recycling Coordinator)
- ii. Study the possibility of a two-can collection system; Blue for recyclables and green for organics, recognizing the contaminant allowances in available technology. (Fresno Green Strategy) (Operations Chief, Recycling Chief, Recycling Coordinator)
- iii. Study the life-cycle effects of non-recyclables and encourage the discontinued use where possible. (e.g. plastic bags, consumer rubber products, Styrofoam.) (Fresno Green Strategy) (Recycling Staff)

c. Commercial Business Activities

- i. Develop business forums to discuss the redesign of products so as to encourage reuse and/or recycling. (Economic Development Office)
- ii. Link businesses to available technical resources that can advise on the environmental and budgetary benefits of product redesign. (Economic Development Office)
- iii. Provide educational information at local business networking meetings. (Recycling Staff)
- iv. Promote secondary storefront reuse opportunities. (e.g. Goodwill, Salvation Army, etc.) (Recycling Staff)
- v. Sponsor an annual Business Zero Waste Workshop, with featured speakers from various zero-waste based businesses demonstrating the "how-to's" toward Zero Waste. (Fresno Green Strategy) (Recycling Office & Economic Development Office)



- vi. Research business waste flows that can be reused or recycled. Establish a local database of reuse/recyclable opportunities. (Recycling Staff)
- vii. Establish a “Feedstock Business Pairings Program”. (Fresno Green Strategy) Solicit new business growth, through the Economic Development Office, that pairs an existing waste stream with a business that can utilize it as a feedstock. (Economic Development Office)
- viii. Develop a Zero-waste business park in Fresno through the City of Fresno Economic Development Office. (Fresno Green Strategy) (Economic Development)

d. Operational Changes

- i. Expand recycling collection to all local businesses. (Fresno Green Strategy) (Recycling Staff)
- ii. Implement a pilot commercial food waste collection program. With success, expand food waste collection to all restaurants and food handlers within the City. (Fresno Green Strategy) (Recycling Staff)

e. Fiscal Impact for FY10

- i. Additional funds needed for pilot food-waste collection program
- ii. Recycling Education & Media funds (GM12) utilized for most activities (no additional \$ needed than currently budgeted)
- iii. Recycling Staff time – approximately 2 FTE (existing positions)

What's In America's Trash

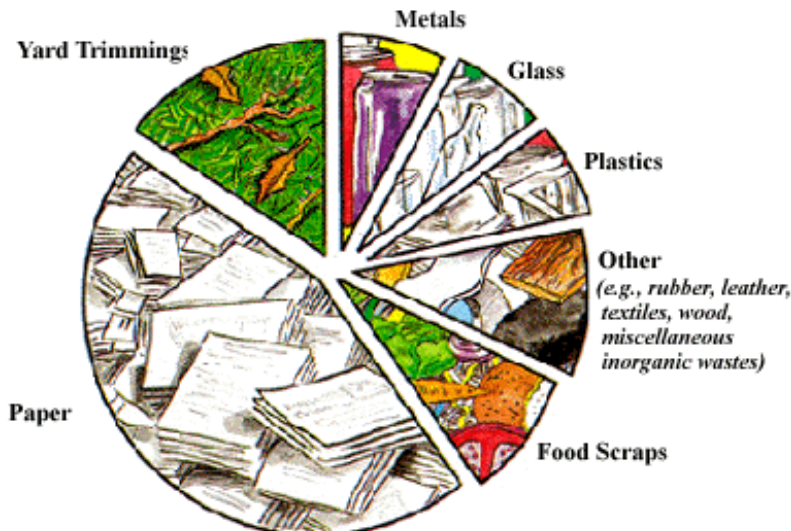


Table of Trash Types and Percentages

paper	33.9%
yard trimmings	12.9%
food scraps	12.4%
plastics	11.7%
metals	7.6%
glass	5.3%
wood	5.5%
other	10.7%

Source: US EPA 2006

